Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-09-03-12** **Date: 06-09-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP,
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Ambedkar Colony Main Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.
Agency	:	V.Chandrappa, #681, Dasarahalli, Bangalore-24
Customer's Reference	:	BBMP/EE/BTP/WO/21/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-09-18
Sample ID No	:	2018-09-03-12 /01
Sample Type	:	ACC53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	04-09-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.2	–
2	Finess by Air permeablity method (m^2/kg,Min)	249.5	225m^2/kg, Min
3	Density (gm/cc)	3.11	–
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	170 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-09-03-12** **Date: 02-10-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Ambedkar Colony Main Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.
Agency	:	V.Chandrappa, #681, Dasarahalli, Bangalore-24
Customer's Reference	:	BBMP/EE/BTP/WO/21/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-09-18
Sample ID No	:	2018-09-03-12 /01
Sample Type	:	ACC53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	04-09-18
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm2	Not less than 37 N/mm^2
3	28 Days	56.5N/mm2	Not less than 53 N/mm^2

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-09-03-12** **Date: 06-09-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Ambedkar Colony Main Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.
Agency	:	V.Chandrappa, #681, Dasarahalli, Bangalore-24
Customer's Reference	:	BBMP/EE/BTP/WO/21/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-09-18
Sample ID No	:	2018-09-03-12 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	423	423	2.8	97.2	90-100
3	20 mm	5852	6275	41.8	58.2	30-70
4	10 mm	4232	10507	70.0	30.0	10-35
5	4.75 mm	4225	14732	98.2	1.8	0-5
6	Pan	268	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-09-03-12** **Date: 06-09-18**

Sample ID No : 2018-09-03-12 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.56	_
5	Bulk Density(Compacted) (Kg/l)	1.59	_
6	Water Absorption(%)	0.21	_

Note:
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-09-03-12** **Date: 05-09-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Ambedkar Colony Main Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.
Agency	:	V.Chandrappa, #681, Dasarahalli, Bangalore-24
Customer Reference	:	BBMP/EE/BTP/WO/21/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-09-18
Sample ID No	:	2018-09-03-12 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	278	278	5.6	94.4	90-100
3	10 mm	2754	3032	60.6	39.4	25-55
4	4.75 mm	1754	4786	95.7	4.3	0-10
5	Pan	214	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-09-03-12** **Date: 05-09-18**

Sample ID No : 2018-09-03-12 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.69	_
4	Bulk Density(Loose) (Kg/l)	1.52	_
5	Bulk Density(Compacted) (Kg/l)	1.54	_
6	Water Absorption(%)	0.27	_
7	Aggregate crushing Value(%)	23.2	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-09-03-12** **Date: 05-09-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Ambedkar Colony Main Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.
Agency	:	V.Chandrappa, #681, Dasarahalli, Bangalore-24
Customer's Reference	:	BBMP/EE/BTP/WO/21/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-09-18
Sample ID No	:	2018-09-03-12 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	03-09-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	86	86	8.6	91.4	90-100	90-100	90-100	95-100
3	2.36 mm	145	231	23.1	76.9	60-95	75-100	85-100	95-100
4	1.18 mm	156	387	38.7	61.3	30-70	55-90	75-100	90-100
5	600 micron	188	575	57.5	42.5	15-34	35-59	60-79	80-100
6	300 micron	175	750	75.0	25.0	5-20	8-30	12-40	15-50
7	150 micron	162	912	91.2	8.8	0-10	0-10	0-10	0-15
8	Pan	88	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-09-03-12** **Date: 05-09-18**

Sample ID No : 2018-09-03-12 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.4	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	7.3	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-09-03-12** **Date: 05-09-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Ambedkar Colony Main Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.
Agency	:	V.Chandrappa, #681, Dasarahalli, Bangalore-24
Customer's Reference	:	BBMP/EE/BTP/WO/21/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-09-18
Sample ID No	:	2018-09-03-12 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	04-09-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.393	525	639	21.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.612	548	655	21.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.883	563	662	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2018-09-03-12** **Date: 08-09-18**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Ambedkar Colony Main Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.

Agency : V.Chandrappa, #681, Dasarahalli, Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/21/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-09-18

Sample ID No : 2018-09-03-12 /05

Sample Type /Size : 150mm thick Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 04/09/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	100.51	150.03	2.144	7933	153.8	19.4	18.0	22.5
2	Cover Slab-2	100.48	150.02	2.186	7928	151.7	19.1	17.8	22.2
3	Cover Slab-3	100.49	150.05	2.145	7930	150.3	19.0	17.6	22.0

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-10-08** **Date: 14/09/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Ambedkar Colony Main Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.

Agency : V.Chandrappa, #681, Dasarahalli, Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/21/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-18

Sample ID No : 2018-09-10-08 /01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	07/09/2018	14/09/2018	149.11 X 150.24 X 150.47	22402	8.265	385.3	17.2	17.2
2	M20 Concrete	M20	07/09/2018	14/09/2018	150.33 X 150.47 X 151.12	22620	8.172	380.0	16.8	
3	M20 Concrete	M20	07/09/2018	14/09/2018	149.87 X 150.66 X 150.78	22579	8.241	395.1	17.5	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-10-08** **Date: 05/10/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Ambedkar Colony Main Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.

Agency : V.Chandrappa, #681, Dasarahalli, Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/21/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-18

Sample ID No : 2018-09-10-08 /02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	07/09/2018	05/10/2018	150.22 X 150.87 X 149.11	22664	8.214	509.9	22.5	22.0
2	M20 Concrete	M20	07/09/2018	05/10/2018	151.14 X 150.47 X 150.47	22742	8.192	491.2	21.6	
3	M20 Concrete	M20	07/09/2018	05/10/2018	149.87 X 149.82 X 149.32	22454	8.185	491.7	21.9	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-10-08** **Date: 14/09/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Ambedkar Colony Main Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.

Agency : V.Chandrappa, #681, Dasarahalli, Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/21/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-18

Sample ID No : 2018-09-10-08 /03

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	07/09/2018	14/09/2018	150.30 X 151.27 X 151.84	22737	8.379	416.1	18.3	18.2
2	M20 Concrete	M20	07/09/2018	14/09/2018	151.33 X 150.22 X 151.32	22731	8.339	404.6	17.8	
3	M20 Concrete	M20	07/09/2018	14/09/2018	151.68 X 150.61 X 150.13	22844	7.981	420.3	18.4	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-10-08** **Date: 05/10/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Ambedkar Colony Main Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.

Agency : V.Chandrappa, #681, Dasarahalli, Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/21/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-18

Sample ID No : 2018-09-10-08 /04

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	07/09/2018	05/10/2018	151.89 X 150.89 X 151.45	22917	8.046	543.1	23.7	23.1
2	M20 Concrete	M20	07/09/2018	05/10/2018	151.04 X 151.80 X 149.82	22928	8.306	518.2	22.6	
3	M20 Concrete	M20	07/09/2018	05/10/2018	152.00 X 149.77 X 150.39	22765	8.366	525.9	23.1	

Note:

The results pertain to the samples received and tested.
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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-10-08** **Date: 14/09/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Ambedkar Colony Main Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.

Agency : V.Chandrappa, #681, Dasarahalli, Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/21/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-18

Sample ID No : 2018-09-10-08 /05

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	07/09/2018	14/09/2018	149.22 X 150.10 X 150.43	22399	8.105	400.3	17.9	17.6
2	M20 Concrete	M20	07/09/2018	14/09/2018	151.49 X 151.67 X 150.36	22977	8.195	393.7	17.1	
3	M20 Concrete	M20	07/09/2018	14/09/2018	150.71 X 149.52 X 151.49	22533	8.354	403.0	17.9	

Note:

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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Quality Manager

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Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-10-08** **Date: 05/10/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Ambedkar Colony Main Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.

Agency : V.Chandrappa, #681, Dasarahalli, Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/21/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-18

Sample ID No : 2018-09-10-08 /06

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	07/09/2018	05/10/2018	151.45 X 151.27 X 151.83	22909	8.233	522.3	22.8	22.8
2	M20 Concrete	M20	07/09/2018	05/10/2018	150.91 X 149.42 X 150.20	22549	8.227	520.9	23.1	
3	M20 Concrete	M20	07/09/2018	05/10/2018	151.36 X 150.09 X 149.74	22717	8.106	508.9	22.4	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-10-08** **Date: 14/09/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Ambedkar Colony Main Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.

Agency : V.Chandrappa, #681, Dasarahalli, Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/21/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-18

Sample ID No : 2018-09-10-08 /07

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	07/09/2018	14/09/2018	149.15 X 151.30 X 149.85	22565	7.950	392.4	17.4	17.7
2	M20 Concrete	M20	07/09/2018	14/09/2018	150.94 X 150.43 X 149.94	22707	8.415	405.6	17.9	
3	M20 Concrete	M20	07/09/2018	14/09/2018	149.89 X 149.10 X 151.20	22348	8.190	401.5	18.0	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-10-08** **Date: 05/10/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Ambedkar Colony Main Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.

Agency : V.Chandrappa, #681, Dasarahalli, Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/21/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-18

Sample ID No : 2018-09-10-08 /08

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	07/09/2018	05/10/2018	150.26 X 151.17 X 150.05	22715	8.403	538.4	23.7	
2	M20 Concrete	M20	07/09/2018	05/10/2018	150.59 X 151.66 X 150.26	22838	8.165	523.0	22.9	23.0
3	M20 Concrete	M20	07/09/2018	05/10/2018	151.34 X 151.98 X 150.91	23000	8.362	515.2	22.4	

Note:

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-10-08** **Date: 15/09/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Ambedkar Colony Main Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.

Agency : V.Chandrappa, #681, Dasarahalli, Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/21/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-18

Sample ID No : 2018-09-10-08 /09

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	08/09/2018	15/09/2018	149.50 X 149.22 X 150.41	22310	8.562	410.5	18.4	18.6
2	M20 Concrete	M20	08/09/2018	15/09/2018	151.95 X 151.97 X 151.14	23093	8.153	427.2	18.5	
3	M20 Concrete	M20	08/09/2018	15/09/2018	149.04 X 149.94 X 150.76	22348	8.263	422.4	18.9	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-10-08** **Date: 06/10/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Ambedkar Colony Main Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.

Agency : V.Chandrappa, #681, Dasarahalli, Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/21/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-18

Sample ID No : 2018-09-10-08 /10

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	08/09/2018	06/10/2018	150.14 X 150.37 X 149.01	22577	8.387	537.3	23.8	23.1
2	M20 Concrete	M20	08/09/2018	06/10/2018	150.08 X 149.79 X 151.72	22482	8.257	496.8	22.1	
3	M20 Concrete	M20	08/09/2018	06/10/2018	149.07 X 150.69 X 150.65	22464	8.437	527.9	23.5	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-10-08** **Date: 15/09/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Ambedkar Colony Main Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.

Agency : V.Chandrappa, #681, Dasarahalli, Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/21/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-18

Sample ID No : 2018-09-10-08 /11

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	08/09/2018	15/09/2018	150.58 X 149.62 X 151.42	22529	8.007	403.8	17.9	17.5
2	M20 Concrete	M20	08/09/2018	15/09/2018	150.91 X 149.29 X 151.75	22529	8.374	384.9	17.1	
3	M20 Concrete	M20	08/09/2018	15/09/2018	151.52 X 151.16 X 149.44	22905	8.403	402.8	17.6	

Note:

The results pertain to the samples received and tested.
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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-10-08** **Date: 06/10/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Ambedkar Colony Main Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.

Agency : V.Chandrappa, #681, Dasarahalli, Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/21/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-18

Sample ID No : 2018-09-10-08 /12

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	08/09/2018	06/10/2018	151.48 X 150.83 X 150.18	22848	8.553	523.2	22.9	22.9
2	M20 Concrete	M20	08/09/2018	06/10/2018	151.39 X 150.91 X 151.27	22846	8.358	527.7	23.1	
3	M20 Concrete	M20	08/09/2018	06/10/2018	151.69 X 151.21 X 151.44	22936	8.373	520.7	22.7	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-10-08** **Date: 15/09/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Ambedkar Colony Main Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.

Agency : V.Chandrappa, #681, Dasarahalli, Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/21/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-18

Sample ID No : 2018-09-10-08 /13

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	08/09/2018	15/09/2018	149.77 X 151.24 X 150.65	22651	8.177	414.5	18.3	18.2
2	M20 Concrete	M20	08/09/2018	15/09/2018	150.47 X 150.02 X 150.55	22574	8.165	404.1	17.9	
3	M20 Concrete	M20	08/09/2018	15/09/2018	149.87 X 151.63 X 151.58	22725	8.152	418.1	18.4	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 90 days from the date of issue of test certificate

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-28

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

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****End of Report****

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-10-08** **Date: 06/10/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains of Ambedkar Colony Main Road Dasarahalli in Ward No.06 Byatarayanapura Sub Division.

Agency : V.Chandrappa, #681, Dasarahalli, Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/21/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-18

Sample ID No : 2018-09-10-08 /14

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	08/09/2018	06/10/2018	149.65 X 151.24 X 150.65	22633	8.144	536.4	23.7	23.4
2	M20 Concrete	M20	08/09/2018	06/10/2018	149.68 X 150.77 X 150.56	22567	8.201	516.8	22.9	
3	M20 Concrete	M20	08/09/2018	06/10/2018	149.87 X 150.66 X 151.65	22579	8.164	530.6	23.5	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

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